

In The Claims:

Please amend the claims as follows:

1. (original) A control device for individually controlling plural circuit-units using a single cable, comprising:

a central unit for transmitting frequency signals of different frequency channels; plural circuit-units each provided with a band pass filter having a frequency band different from those of any other band pass filters provided for the other circuit- units; and a cable connected between the central unit and the plural circuit-units to transfer the frequency signals from the central unit to the plural circuit-units.

2. (currently amended) [[A]]The control device as claimed in claim 1, wherein each of the band passes filters has a voltage threshold circuit.

3. (currently amended) [[A]]The control device as claimed in claim 2, wherein the voltage threshold circuit has a diode section, in which at least one forward diode and at least one reverse diode are connected in parallel to each other.

4. (currently amended) [[A]]The control device as claimed in claim 1, wherein each of the band pass filters has a detection unit for detecting an AM signal if a signal passing through the corresponding band pass filter is an AM signal.

5. (currently amended) [[A]]The control device as claimed in claim 4, wherein the detection unit comprises at least one diode, which serves as a voltage threshold circuit for providing a voltage threshold value for the corresponding band pass filter.

6. (currently amended) [[A]]The control device as claimed in claim 1, wherein the cable comprises a frequency signal output line for outputting a frequency signal, a ground line, and a return line, wherein amongst the frequency channels, the highest frequency channel is transmitted to the return line.

7. (currently amended) [[A]]The control device as claimed in claim 1, wherein the central unit divides time into time periods assigned to the different frequency channels and sequentially transmits the frequency signals through the different frequency channels according to the divided time periods.

8. (currently amended) [[A]]The control device as claimed in claim 1, wherein the central unit overlappingly and simultaneously transmits the frequency signals to the plural circuit-units through different frequency channels.

9. (currently amended) [[A]]The control device as claimed in [[any of claims 1 to 8]]claim 1, the cable is connected with an existing power line so that electric power and the frequency signals are transmitted through the power line.

10. (currently amended) [[A]]The control device as claimed in claim 9, wherein a switch section controlled by the central unit is included in the midway of the power line in the case in which the cable is connected to the power line.

11. (currently amended) [[A]]The control device as claimed in [[any of claims 1 to 8]]claim 1, wherein the central unit sends only one frequency value as a frequency signal to

be transmitted to a predetermined circuit-unit, and then sends the frequency signal to the predetermined circuit-unit using single resonance only when the frequency value matches with a frequency band of a band pass filter corresponding to the predetermined circuit-unit.

12. (currently amended) [[A]]The control device as claimed in claim 9, wherein the central unit sends only one frequency value as a frequency signal to be transmitted to a predetermined circuit-unit, and then sends the frequency signal to the predetermined circuit-unit using single resonance only when the frequency value matches with a frequency band of a band pass filter corresponding to the predetermined circuit-unit.

13. (currently amended) [[A]]The control device as claimed in [[any of claims 1 to 8]]claim 1, wherein the central unit sends two or more frequency values as a predetermined frequency signal to be transmitted to a predetermined circuit-unit, and then sends the predetermined frequency signal to the circuit-units using multiple resonance only when all the frequency values match with a frequency band of a band pass filter corresponding to the predetermined circuit-unit.

14. (currently amended) [[A]]The control device as claimed in claim 9, wherein the central unit sends two or more frequency values as a predetermined frequency signal to be transmitted to a predetermined circuit-unit, and then sends the predetermined frequency signal to the circuit-units using multiple resonance only when all the frequency values match with a frequency band of a band pass filter corresponding to the predetermined circuit-unit.

15.(original) A control device for individually controlling plural circuit-units using a single cable, comprising:

a central unit for transmitting frequency signals of different frequency channels to and receiving signals from circuit-units;

plural circuit-units each provided with a band pass filter having a frequency band different from those of any other band pass filters provided for the other circuit- units, wherein each of the circuit-units selectively receives a frequency signal and sends signal information concerning a load included therein to the central unit; and

a cable connected between the central unit and the plural circuit-units to transfer the frequency signals from the central unit to the plural circuit-units and to transfer the signal information from the plural circuit-units to the central unit.

16. (currently amended) [[A]]The control device as claimed in claim 15, wherein the cable comprises a frequency signal output line for outputting the frequency signals to be transmitted from the central unit to the circuit-units, a ground line, and at least one signal line for transferring signal information from the circuit-units to the central unit.

17. (currently amended) [[A]]The control device as claimed in claim 15, wherein each of the circuit-units comprises a 4-probe method circuit.

18. (currently amended) [[A]]The control device as claimed in claim 15, wherein each of the circuit-units comprises a switch.

19. (currently amended) [[A]]The control device as claimed in [[any of claims 15 to 18]]claim 15, wherein the central unit sends only one frequency value as a frequency signal to be transmitted to a predetermined circuit-unit, and then sends the frequency signal to the predetermined circuit-unit using single resonance only when the frequency value matches with a frequency band of a band pass filter corresponding to the predetermined circuit-unit.

20. (currently amended) [[A]]The control device as claimed in [[any of claims 15 to 18]]claim 15, wherein the central unit sends two or more frequency values as a predetermined frequency signal to be transmitted to a predetermined circuit-unit, and then sends the predetermined frequency signal to the circuit-units using multiple resonance only when all the frequency values match with a frequency band of a band pass filter corresponding to the predetermined circuit-unit.

Claims 21-35 (canceled)